

Michael J. DeMartini, P.E.

April 7, 2023

Email Only wrwc@washoecounty.gov

Western Regional Water Commission

Att: Ms. Kim Rigdon, Water Resources Program Manager

Re: Requests for Appointment

Dear WRWC Trustees,

Please accept this letter and resume as my request for appointment as the “Public at Large Representative” to serve on the Northern Nevada Water Planning Commission.

My education and experience of the last four decades in water planning, environmental, water resources, drainage, flooding, etc including serving on two water commissions along with a broad private sector experience with the public, makes me well qualified for the position.

Should additional information be required or if there are questions, please call at your earliest convenience.

Sincerely yours,



Michael J. DeMartini, P.E.

MJD:mjd

Attachment

MICHAEL J. DeMARTINI, P.E.

PRINCIPAL ENGINEER AND PRESIDENT

Page 1 of 5 – July 1, 2010, Rev: March 14, 2023 ©

EDUCATION

- Bachelor of Science. - 1971 - Civil Engineering - University of Nevada, Reno
- Associate of Arts. - 1969 - Mechanical Engineering - Sierra College, California
- Post-graduate study in Reinforced Concrete Design
- Ongoing Continuing Education to the Present

REGISTRATION/CERTIFICATIONS

- Registered Professional Civil Engineer - Nevada RE 4092, 1975 to present
- Registered Professional Civil Engineer - California RCE 24650, 1975 to present
- Registered Professional Geotechnical Engineer - California, GE 263, 1987 to present
- Certified Grade 4 Water Distribution Operator – Nevada, D-821, 1998 to present
- Certified Grade 3 Wastewater Treatment Plant Operator – Nevada, NV-476, 1999 to present
- State of Nevada Water Rights Surveyor, Cert No. 1053, 1998 to present

EXPERIENCE

2008 - 2020: Commissioner of the Northern Nevada Water Planning Commission

- Mr. DeMartini, as a water planning commissioner, is one of twelve voting commissioners on the Northern Nevada Water Planning Commission. The Western Regional Water Commission appointed Mr. DeMartini in 2008 and again in 2010 to provide representation for approximately 9,000 domestic well owners. The commission is involved in planning for water supply/distribution, wastewater collection/treatment/disposal and storm drainage/flood protection in Washoe County.

1995 - 2008: Commissioner of the Regional Water Planning Commission of Washoe County

- Mr. DeMartini, as a water planning commissioner, is one of nine voting commissioners on the Regional Water Planning Commission of Washoe County appointed by Washoe County Commissioners to provide representation for domestic well owners. The commission is involved in planning for water supply/distribution, wastewater collection/reclamation and storm drainage/flood analysis, projection and protection.

1995 - Present: Meridian Company, Principal Engineer and President

- Mr. DeMartini established the Meridian Company which specializes in Civil Engineering, Invention, Research and Development with particular expertise in Land Development Engineering, Water, and Wastewater System design, construction and operation.
- Projects involved water system design and construction related services for Topaz Mutual Water Company, Reno Park Water Company, Utilities Inc. of Nevada and Verdi Meadows Utility Company. Specifically, design and/or related services were for 10's of miles of water main, 2 new water tanks, 2 booster pumps, 6 new regulating stations, and 3 production wells.

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Page 2 of 5 – July 1, 2010, Rev: March 14, 2023 ©

- One selected project involved a flood study of the Truckee River for the Reno Sparks Indian Colony and the Northern Nevada Development Authority for preliminary flood level determinations and designed interim protection berm following the 1997 Flood in the area where later a Walmart was constructed on East Second Street in Reno, NV.
- Developed background analysis, prepared and filed Water Rights applications and maps for Lemmon Valley Basin 92A and 92B and Cold Spring Valley Basin 100 pertaining to controlling surface and shallow ground water for flood protection. These projects are currently ongoing involving monitoring and analysis and hearings at the State Division of Water Resources.

1997 - Present: American Environmental Resources, Inc., President and Director

Mr. DeMartini established this company as a Nevada based corporation for the purpose of manufacturing the SRBR® wastewater treatment system and other environmental related products. Additionally, the corporation has provided the operation and maintenance of systems locally and in southern Nevada. The SRBR® wastewater treatment system has received approval from the Nevada Health Department, Nevada Department of Environmental Protection, Southern Nevada Health Authority and Washoe County Health Department. Approval was predicated on producing treated water from raw sewage to a clear liquid effluent having a total nitrogen content of less than 10mg/l (the drinking water standard for nitrate nitrogen).

1970 - 1995: SEA, Incorporated, Principal Engineer and Project Manager

- Since 1970, Mr. DeMartini has served as Staff Engineer in the early 1970's, a Registered Engineer in California and Nevada in 1975, Department Manager and Project Senior Engineer/Project Manager in the early 1980's and Principal Engineer/Project Manager in 1986 through mid 1995.
- During this period, Mr. DeMartini was involved in the planning, design, construction administration, and construction review of grading, drainage, storm drain, sanitary sewer, water supply and systems, streets, utilities and engineering associated with apartment, condominium, subdivision, airport, commercial and industrial projects. Special emphasis has been in the economical evaluation and interaction of the water, drainage, flood, sewer lines, onsite wastewater treatment, grading, utilities and roadways.
- Specific water experience includes evaluation of water rights, water supply wells, water demand and patterns, groundwater, water storage, water distribution, water quantity and quality, water rates, and water company administration. Special studies involved the economic and engineering feasibility of a pumped, drought reserve, and energy peaking reservoir for the Truckee Meadows, a Solar Salt Gradient Pond System for Heating and Providing Energy for Single Family Homes, and Ground Water Protection, Analysis and Reuse.
- Specific overall development experience includes having the responsible position of Principal Engineer/Project Manager for the development of the following major projects involving civil engineering design, surveying, construction administration, inspection and testing:
 - >Donner Springs and El Rancho Buena Vista Residential Communities (4,000+ units)
 - >Reno Freeport Aircenter/Dermody Aircenter (water, wastewater, grading, roads utilities) (160 ac industrial park)
 - >Cold Springs Valley and Lemmon Valley, Residential, Commercial and Industrial Developments 1970 to 1995.
 - >Porsche Cars North American Distribution Center (grading, drainage, utilities and airport)

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Page 3 of 5 – July 1, 2010, Rev: March 14, 2023 ©

(project included the construction of a reinforced concrete 747 cargo plane taxiway from Reno International Airport to the distribution center building all within a foreign trade zone so that Porsche cars could be transported via plane directly from Germany to Reno without going through customs. The entire project had to be completed within 5 months from the date of submittal to planning to occupancy permit for the distribution warehouse. The project was completed on time.)

- >Willow Creek Subdivisions (water distribution, wastewater, grading, roads and utilities, 1000 lots)
- >Silver Lake Business Center (water distribution, wastewater, drainage, flood protection, grading, wetlands, roads and utilities) (500 acs) (The site was found to contain a 10,000+ ton buried hazardous waste dump that had to be cleaned up)
- >Michelin Tire Warehouse infrastructure and site development (water, grading, drainage, rail) (800,000 sf building)
- >Hidden Valley Ranch Facility, Reno, Nevada, infrastructure engineering (water, grading, drainage, flood, railroad and wetland environmental mitigation) (105,000 sf, 54 acre salad dressing factory) (the grading plan required that 250,000 cubic yards of soil be moved and compacted in 14 calendar days) (The wetland project required substantial excavation down to the groundwater in east playa)
- >White Lake Parkway (previously Reno Park Boulevard). Approx. 2 mile public road arterial. Civil Engineering project manager for preliminary design, right of way acquisition, engineering design and construction administration.
- >Miscellaneous Subdivision Project Management - land mapping boundaries/title, preliminary design, soils, hydrology, drainage, engineering design of infrastructure, final subdivision mapping, construction observation/administration and related activities for an approximate total 13,000 lots.
- >In the mid 1970's, as a principle engineer authored Construction Methods relating to grading Chapters 300 through 305 of the "The Standard Specifications for Public Works Construction" that is also know as the "Orange Book" Thereafter the book was first published in 1978 and it has proven to be an invaluable document to its users in Nevada and is currently on the 9th revision. The book is sponsored and distributed by the Regional Transportation Commission of Washoe County and is also implemented by other counties and cities in northern Nevada.

1977 - 2018: CALIFORNIA PROJECTS, Principle Engineer Project Manager:

- >Coan Ranch, Nevada City, CA Horizontal and vertical control survey for 100 acre engineering accuracy topographic map, and quiet title percipient expert witness Nevada County Superior Court, CA.
- >Empress Meadows Ranch, Nevada City, CA Horizontal and vertical control survey for 200 acre engineering accuracy topographic map. 1977-78
- >Empress Meadows Ranch, tentative development for 180 acre 16 lot subdivision. 1977-78
- >Site surveying, engineering and construction administration for California AAA office, Dorsey Drive, Grass Valley, CA. 1982-83
- >Public road surveying, engineering and construction administration for Dorsey Drive, Grass Valley, CA 1982-83
- >Loma Rica Industrial Park, 12731 Loma Rica Dr., Nevada County, CA, 12,000 sf industrial building project. surveying, engineering and construction administration 1977-78
- >Loma Rica Air Park Phase I, 12759 Loma Rica Dr., Nevada County, CA, 6,000 sf industrial building project. surveying, engineering and construction administration

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Page 4 of 5 – July 1, 2010, Rev: March 14, 2023 ©

1988.

- >Loma Rica Air Park Phase II, 12757 and 12761 Loma Rica Dr., Nevada County, CA, 7,200 sf industrial building project. surveying, engineering and construction administration 1998.
- >Newtown Mine cave-in 1982. Nevada City, CA, Analysis and design of concrete cap assembly to close open sink hole to 1,000 ft. deep shaft.
- >Dorsey Drive, Grass Valley, CA Proposed Road Widening. Discussion with City Engineering and Caltrans officials. Review draft design plans and recommended adjustment to mitigate impacts to adjacent properties. 2009-10
- > Empress Ranch, Nevada City, CA, Review and analysis of property boundaries, constraints and master planning 2009+

AREAS OF KNOWLEDGE AND EXPERTISE

- City Regulations/Codes/Applicable Laws
- Principles and Practices of Municipal Public Works administration, inclusive of, but not limited to: Civil Engineering, Geotechnical Engineering, Traffic Engineering, Sewage Collection, Drainage and Water Facilities.
- Multi-Project Management
- **Planning, Design, Construction, Administration and Construction Review of the following:**
 - > Soils/Grading/Drainage > Hydrology, Storm Drainage
 - > Wastewater Systems > Water Supply and Distribution
 - > Utilities/Airports/Railroads/Buildings and Streets
 - > Environmental Mitigation of Wetlands and Hazardous waste dump Reno-Stead, NV
- Civil Engineering associated with Apartment, Condominium, Subdivision, Airports, Commercial and Industrial Projects
- **Economical Evaluation, Interaction, and Optimization of;** Water Rights, Supply Wells, Demand & Patterns, Storage, Distribution, Quality, Rates and Water Company Operations
- HEC 1, HEC 2 and HEC HMS modeling in Lemmon Valley and particularly in Cold Springs Valley where a HEC-HMS model was developed for the entire hydrographic basin to model, estimate and predict the response of White Lake to long term and multiple year hydrological events with regard to flooding and water accumulations. To accomplish the calibration stream and flood flows coming into the lake along with continuous monitoring of the lake levels has been accomplished for extended periods of time. The results from the Cold Springs model has been used to estimate and compare with responses related to the Lemmon Valley hydrographic basins from similar events.
- Economic and Engineering Feasibility of pumped, drought reserve and energy peaking reservoir in regards to the Truckee Meadows area.
- Hydrology, Flood Routing, Protection, and Coordination
- Plan Checking > Quantity/Cost Estimates
- Material testing > Property Surveying (Calif)
- Economical Design > Computer Literate
- Inspection > Budget Development
- Master planning > Client Contact
- Job Budget Control > Supervision of Staff

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Page 5 of 5 – July 1, 2010, Rev: March 14, 2023 ©

EXPERT WITNESS (Last 10 Years)

Superior Court Marin County, CA 2011

Superior Court Nevada County, CA 2013

American Arbitration Association, San Francisco, CA, 2014

United States District Court, Eastern District of California, 2018

Second Judicial District Court, Reno, NV in Class Action Suit against the City of Reno pertaining to flooding in the Lemmon Valley basin.

Nevada State Division of Water Resources Adjudication Cold Spring Basin 2019 through determination of rights and final settlement at Reno Judicial District Court in 2022

AFFILIATIONS (during tenure)

- Member American Water Works Association
- Member American Public Works Association
- Member American Society of Civil Engineers
- Member National Society of Professional Engineers
Reno Chapter President in 1981-82, Nevada State President in 1990-91
- Washoe Council of Governments Flood Control/Flood Plain Management Technical Advisory Committee - 1980 through 1982.
- A.S.C.E Hydrology and Drainage Technical Advisory Subcommittee 1995-1997
- Voting Member, Washoe Water Protection Association, WWPA, 1995-1997
- Voting Member Alternate, Regional Water Planning Commission of Washoe County, 1995-2001
- Commissioner, Regional Water Planning Commission of Washoe County, 2001- 2008, Chairmen 2004.
- Commissioner, Northern Nevada Water Planning Commission 2008 to 2019, Vice Chairman 2017-18 and Chairman 2018-2019.